

# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

### ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Stantec 1060 Andrew Drive Suite 140 West Chester PA 19380

Report Date: March 30, 2017

**Project: MHIC AOI 5** 

Submittal Date: 03/23/2017 Group Number: 1780229 PO Number: 213402567 State of Sample Origin: PA

 Client Sample Description
 (LL) #

 AOI5-BH-17-01 Grab Soil
 8898244

 AOI5-BH-17-02 Grab Soil
 8898245

 AOI5-BH-17-03 Grab Soil
 8898246

 AOI5-BH-17-04 Grab Soil
 8898247

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <a href="http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/">http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/</a>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Stantec
Electronic Copy To Sunoco c/o Stante

Stantec Attn: Andrew Bradley Sunoco c/o Stantec Attn: Jenny DeBoer

Respectfully Submitted,

Amek Carter Specialist

(717) 556-7252



# Analysis Report

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Sample Description: AOI5-BH-17-01 Grab Soil

MHIC AO1 5

LL Sample # SW 8898244 LL Group # 1780229 Account # 16657

Project Name: MHIC AOI 5

Submitted: 03/23/2017 18:14

Collected: 03/22/2017 09:45 by DH

1060 Andrew Drive

Suite 140

Stantec

Reported: 03/30/2017 14:57 West Chester PA 19380

| CAT<br>No. | Analysis Name  | C           | CAS Number    | Dry<br>Result                                | Dry<br>Method<br>Detection Limit | Dilution<br>Factor |
|------------|--|-------------|---------------|--|----------------------------------|--------------------|
| Metals     | s SW   | -846 6010   | В             | mg/kg  | mg/kg                            |                    |
| 06951      | Chromium   |             | 7440-47-3     | 58.4 Q4                                      | 0.118                            | 1                  |
| 02829      | Trivalent Chromium soil  | .s :        | 16065-83-1    | 57.2   | 0.56                             | 1                  |
|            | The Trivalent Chromium Chromium from Total Chr                     |             | alculated by  | subtracting Hexavalent                       |                                  |                    |
| Wet Cl     | nemistry AS'   | TM D1498    |               | mV   | mV                               |                    |
| 01821      | Oxidation Reduction Pot  | ential r    | ı.a.          | 422  | 10.0                             | 1                  |
|            | The oxidation-reduction standard hydrogen scale                    |             | is reported i | n mV as referred to the                      |                                  |                    |
|            | SW   | -846 7196   | A             | mg/kg  | mg/kg                            |                    |
| 00425      | Hexavalent Chromium (SC  | DLIDS)      | 18540-29-9    | 1.2 J Q8                                     | 0.56                             | 1                  |
|            | SW   | -846 9045   | C modified    | Std. Units                                   | Std. Units                       |                    |
| 00394      | pH in soil   | 1           | ı.a.          | 8.50   | 0.0100                           | 1                  |
|            | The pH was measured in   | water at 19 | 0.1 C.        |  |                                  |                    |
| Wet Cl     | nemistry SM  | 2540 G-1    | 997           | %  | %                                |                    |
|            | Moisture   | 1           | ı.a.          | 10.9 08                                      | 0.50                             | 1                  |
|            | Moisture represents the 103 - 105 degrees Celsi as-received basis. |             |               | ample after oven drying at reported is on an |                                  |                    |

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

|            | Laboratory Sample Analysis Record |                       |        |              |                         |       |                  |                    |  |  |  |
|------------|-----------------------------------|-----------------------|--------|--------------|-------------------------|-------|------------------|--------------------|--|--|--|
| CAT<br>No. | Analysis Name                     | Method                | Trial# | Batch#       | Analysis<br>Date and Ti | me    | Analyst          | Dilution<br>Factor |  |  |  |
| 06951      | Chromium                          | SW-846 6010B          | 1      | 170845708001 | 03/27/2017              | 20:24 | Cindy M Gehman   | 1                  |  |  |  |
| 02829      | Trivalent Chromium soils          | SW-846 6010B          | 1      | 170882829001 | 03/30/2017              | 12:58 | Nina C Haller    | 1                  |  |  |  |
| 05708      | ICP-ICPMS - SW, 3050B - U3        | SW-846 3050B          | 1      | 170845708001 | 03/27/2017              | 00:15 | Denise L Trimby  | 1                  |  |  |  |
| 01821      | Oxidation Reduction Potential     | ASTM D1498            | 1      | 17088182101A | 03/29/2017              | 18:00 | Michelle L Lalli | 1                  |  |  |  |
| 00425      | Hexavalent Chromium (SOLIDS)      | SW-846 7196A          | 1      | 17086042501A | 03/28/2017              | 19:50 | Daniel S Smith   | 1                  |  |  |  |
| 00394      | pH in soil                        | SW-846 9045C modified | 1      | 17088039401A | 03/29/2017              | 18:00 | Michelle L Lalli | 1                  |  |  |  |



# **Analysis Report**

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Sample Description: AOI5-BH-17-01 Grab Soil

MHIC AO1 5

LL Sample # SW 8898244 LL Group # 1780229 Account # 16657

Project Name: MHIC AOI 5

Submitted: 03/23/2017 18:14

Collected: 03/22/2017 09:45 by DH

Stantec

1060 Andrew Drive

Suite 140

West Chester PA 19380 Reported: 03/30/2017 14:57

| CAT<br>No. | Analysis Name                 | Method         | Trial# | Batch#       | Analysis<br>Date and Time | Analyst          | Dilution<br>Factor |
|------------|-------------------------------|----------------|--------|--------------|---------------------------|------------------|--------------------|
| 07825      | Hexavalent Cr<br>(Extraction) | SW-846 3060A   | 1      | 17086042501A | 03/27/2017 18:50          | Daniel S Smith   | 1                  |
| 00111      | Moisture                      | SM 2540 G-1997 | 1      | 17083820003B | 03/25/2017 01:21          | Scott W Freisher | 1                  |



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: AOI5-BH-17-02 Grab Soil

MHIC AO1 5

LL Sample # SW 8898245 LL Group # 1780229 Account # 16657

Project Name: MHIC AOI 5

Submitted: 03/23/2017 18:14

Collected: 03/22/2017 10:00 by DH Stantec

1060 Andrew Drive

Suite 140

Reported: 03/30/2017 14:57 West Chester PA 19380

| CAT<br>No. | Analysis Name   |               | CAS Number     | Dry<br>Result                                   | Dry<br>Method<br>Detection Limit | Dilution<br>Factor |
|------------|---|---------------|----------------|---|----------------------------------|--------------------|
| Metals     | 3   | SW-846 601    | 0B             | mg/kg   | mg/kg                            |                    |
| 06951      | Chromium  |               | 7440-47-3      | 1,390 Q4  | 0.180                            | 1                  |
| 02829      | Trivalent Chromium  | soils         | 16065-83-1     | 1,390   | 6.8                              | 1                  |
|            | The Trivalent Chrom. Chromium from Total                      |               | calculated by  | subtracting Hexavalent                          |                                  |                    |
| Wet Ch     | nemistry  | ASTM D1498    |                | mV  | mV                               |                    |
| 01821      | Oxidation Reduction   | Potential     | n.a.           | 405   | 10.0                             | 1                  |
|            | The oxidation-reductionstandard hydrogen se                   |               | is reported i  | n mV as referred to the                         |                                  |                    |
|            |   | SW-846 719    | 6 <b>A</b>     | mg/kg   | mg/kg                            |                    |
| 00425      | Hexavalent Chromium   | (SOLIDS)      | 18540-29-9     | N.D. Q8   | 6.8                              | 10                 |
|            | Reporting limits we   | re raised due | to interferenc | e from the sample matrix.                       |                                  |                    |
|            |   | SW-846 904    | 5C modified    | Std. Units                                      | Std. Units                       |                    |
| 00394      | pH in soil  |               | n.a.           | 8.69  | 0.0100                           | 1                  |
|            | The pH was measured   | in water at 1 | .8.3 C.        |   |                                  |                    |
| Wet Ch     | nemistry  | SM 2540 G-    | 1997           | 8   | %                                |                    |
|            | Moisture  |               | n.a.           | 26.8 08   | 0.50                             | 1                  |
|            | Moisture represents<br>103 - 105 degrees Coas-received basis. |               |                | ample after oven drying at<br>reported is on an |                                  |                    |

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record Method CAT Analysis Name Trial# Batch# Analysis Analyst Dilution Date and Time Factor No. 06951 Chromium SW-846 6010B 170845708001 03/27/2017 20:27 Cindy M Gehman 02829 Trivalent Chromium soils 170882829001 Nina C Haller SW-846 6010B 1 03/30/2017 12:58 1 05708 ICP-ICPMS - SW, 3050B -SW-846 3050B 1 170845708001 03/27/2017 00:15 Denise L Trimby 1 01821 Oxidation Reduction ASTM D1498 17088182101A 03/29/2017 18:00 Michelle L Lalli Potential 00425 Hexavalent Chromium SW-846 7196A 17086042501A 03/28/2017 19:50 Daniel S Smith 10 (SOLIDS) 00394 pH in soil SW-846 9045C 17088039401A 03/29/2017 18:00 Michelle L Lalli modified



# **Analysis Report**

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Sample Description: AOI5-BH-17-02 Grab Soil

MHIC AO1 5

LL Sample # SW 8898245 LL Group # 1780229 Account # 16657

Project Name: MHIC AOI 5

Collected: 03/22/2017 10:00 by DH

1060 Andrew Drive

Suite 140

Stantec

Submitted: 03/23/2017 18:14 Sui
Reported: 03/30/2017 14:57 Wes

West Chester PA 19380

| CAT<br>No. | Analysis Name                 | Method         | Trial# | Batch#       | Analysis<br>Date and Time | Analyst          | Dilution<br>Factor |
|------------|-------------------------------|----------------|--------|--------------|---------------------------|------------------|--------------------|
| 07825      | Hexavalent Cr<br>(Extraction) | SW-846 3060A   | 1      | 17086042501A | 03/27/2017 18:50          | Daniel S Smith   | 1                  |
| 00111      | Moisture                      | SM 2540 G-1997 | 1      | 17083820003B | 03/25/2017 01:21          | Scott W Freisher | 1                  |



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: AOI5-BH-17-03 Grab Soil

MHIC AO1 5

LL Sample # SW 8898246 LL Group # 1780229 Account # 16657

Project Name: MHIC AOI 5

Collected: 03/22/2017 10:15 by DH

1060 Andrew Drive

Suite 140

Stantec

Submitted: 03/23/2017 18:14

Reported: 03/30/2017 14:57 West Chester PA 19380

| CAT<br>No. | Analysis Name  |            | CAS Number     | Dry<br>Result                                   | Dry<br>Method<br>Detection Limit | Dilution<br>Factor |
|------------|--|------------|----------------|---|----------------------------------|--------------------|
| Metals     | 3  | SW-846 601 | 0B             | mg/kg   | mg/kg                            |                    |
| 06951      | Chromium   |            | 7440-47-3      | 30.0 Q4   | 0.145                            | 1                  |
| 02829      | Trivalent Chromium   |            | 16065-83-1     |   | 0.58                             | 1                  |
|            | The Trivalent Chrom Chromium from Total                          |            | calculated by  | subtracting Hexavalent                          |                                  |                    |
| Wet Ch     | nemistry   | ASTM D1498 |                | mV  | mV                               |                    |
| 01821      | Oxidation Reduction  | Potential  | n.a.           | 399   | 10.0                             | 1                  |
|            | The oxidation-reduc<br>standard hydrogen s                       | -          | is reported i  | n mV as referred to the                         |                                  |                    |
|            |  | SW-846 719 | 6 <b>A</b>     | mg/kg   | mg/kg                            |                    |
| 00425      | Hexavalent Chromium  | (SOLIDS)   | 18540-29-9     | 0.81 J Q8                                       | 0.58                             | 1                  |
|            |  | SW-846 904 | 5C modified    | Std. Units                                      | Std. Units                       |                    |
| 00394      | pH in soil<br>The pH was measured                                |            | n.a.<br>8.8 C. | 8.08  | 0.0100                           | 1                  |
| Wet Ch     | nemistry   | SM 2540 G- | 1997           | %   | 8                                |                    |
| 00111      | -  |            | n.a.           | 13.5 Q8   | 0.50                             | 1                  |
|            | Moisture represents<br>103 - 105 degrees C<br>as-received basis. |            |                | ample after oven drying at<br>reported is on an |                                  |                    |

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| Laboratory Sample Analysis Record |                               |                          |        |              |                         |       |                  |                    |  |  |
|-----------------------------------|-------------------------------|--------------------------|--------|--------------|-------------------------|-------|------------------|--------------------|--|--|
| CAT<br>No.                        | Analysis Name                 | Method                   | Trial# | Batch#       | Analysis<br>Date and Ti | me    | Analyst          | Dilution<br>Factor |  |  |
| 06951                             | Chromium                      | SW-846 6010B             | 1      | 170845708001 | 03/27/2017              | 20:39 | Cindy M Gehman   | 1                  |  |  |
| 02829                             | Trivalent Chromium soils      | SW-846 6010B             | 1      | 170882829001 | 03/30/2017              | 12:58 | Nina C Haller    | 1                  |  |  |
| 05708                             | ICP-ICPMS - SW, 3050B - U3    | SW-846 3050B             | 1      | 170845708001 | 03/27/2017              | 00:15 | Denise L Trimby  | 1                  |  |  |
| 01821                             | Oxidation Reduction Potential | ASTM D1498               | 1      | 17088182101A | 03/29/2017              | 18:00 | Michelle L Lalli | 1                  |  |  |
| 00425                             | Hexavalent Chromium (SOLIDS)  | SW-846 7196A             | 1      | 17086042501A | 03/28/2017              | 19:50 | Daniel S Smith   | 1                  |  |  |
| 00394                             | pH in soil                    | SW-846 9045C<br>modified | 1      | 17088039401A | 03/29/2017              | 18:00 | Michelle L Lalli | 1                  |  |  |



# **Analysis Report**

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Sample Description: AOI5-BH-17-03 Grab Soil

MHIC AO1 5

LL Sample # SW 8898246 LL Group # 1780229 Account # 16657

Project Name: MHIC AOI 5

Collected: 03/22/2017 10:15 by DH

1060 Andrew Drive

Suite 140

Stantec

Submitted: 03/23/2017 18:14 Reported: 03/30/2017 14:57

West Chester PA 19380

| CAT<br>No. | Analysis Name         | Method         | Trial# | Batch#       | Analysis<br>Date and Time | Analyst          | Dilution<br>Factor |
|------------|-----------------------|----------------|--------|--------------|---------------------------|------------------|--------------------|
| 07825      | Hexavalent Cr         | SW-846 3060A   | 1      | 17086042501A | 03/27/2017 18:50          | Daniel S Smith   | 1                  |
| 00111      | (Extraction) Moisture | SM 2540 G-1997 | 1      | 17083820003B | 03/25/2017 01:21          | Scott W Freisher | 1                  |



# Analysis Report

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Sample Description: AOI5-BH-17-04 Grab Soil

MHIC AO1 5

LL Sample # SW 8898247 LL Group # 1780229 Account # 16657

Project Name: MHIC AOI 5

Collected: 03/22/2017 10:40 by DH Stantec

1060 Andrew Drive

Suite 140

Submitted: 03/23/2017 18:14
Reported: 03/30/2017 14:57

West Chester PA 19380

| CAT<br>No. | Analysis Name  |            | CAS Number     | Dry<br>Result                                | Dry<br>Method<br>Detection Limit | Dilution<br>Factor |
|------------|--|------------|----------------|--|----------------------------------|--------------------|
| Metals     | <b>5</b>   | SW-846 601 | 0B             | mg/kg  | mg/kg                            |                    |
| 06951      | Chromium   |            | 7440-47-3      | &_   | 0.163                            | 1                  |
| 02829      | Trivalent Chromium so  |            | 16065-83-1     | 112  | 0.61                             | 1                  |
|            | Chromium from Total  |            | calculated by  | subtracting Hexavalent                       |                                  |                    |
| Wet Cl     | nemistry   | ASTM D1498 |                | mV   | mV                               |                    |
| 01821      | Oxidation Reduction  | Potential  | n.a.           | 391  | 10.0                             | 1                  |
|            | The oxidation-reducts standard hydrogen sca                    |            | is reported i  | n mV as referred to the                      |                                  |                    |
|            | ;  | SW-846 719 | 6 <b>A</b>     | mg/kg  | mg/kg                            |                    |
| 00425      | Hexavalent Chromium  | (SOLIDS)   | 18540-29-9     | 8.6 Q8                                       | 0.61                             | 1                  |
|            | :  | SW-846 904 | 5C modified    | Std. Units                                   | Std. Units                       |                    |
| 00394      | pH in soil<br>The pH was measured :                            |            | n.a.<br>8.4 C. | 8.43   | 0.0100                           | 1                  |
|            | -  |            |                |  |                                  |                    |
|            |  | SM 2540 G- | 1997           | %  | %                                |                    |
| 00111      | Moisture   |            | n.a.           | 17.6 Q8                                      | 0.50                             | 1                  |
|            | Moisture represents to 103 - 105 degrees Cesas-received basis. |            |                | ample after oven drying at reported is on an |                                  |                    |

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record Method Trial# Batch# Analysis Name Analysis Dilution CAT Analyst No. Date and Time Factor SW-846 6010B 170845708001 03/27/2017 20:43 Cindy M Gehman Chromium 02829 Trivalent Chromium soils SW-846 6010B 170882829001 03/30/2017 12:58 Nina C Haller 1 170845708001 05708 ICP-ICPMS - SW, 3050B -SW-846 3050B 03/27/2017 00:15 Denise L Trimby 1 U3 01821 Oxidation Reduction ASTM D1498 17088182101A Michelle L Lalli 03/29/2017 18:00 Potential SW-846 7196A 17086042501A Daniel S Smith 00425 Hexavalent Chromium 03/28/2017 19:50 1 (SOLIDS) 00394 pH in soil SW-846 9045C 17088039401A 03/29/2017 18:00 Michelle L Lalli modified



# **Analysis Report**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: AOI5-BH-17-04 Grab Soil

MHIC AO1 5

LL Sample # SW 8898247 LL Group # 1780229 Account # 16657

Project Name: MHIC AOI 5

Collected: 03/22/2017 10:40 by DH

1060 Andrew Drive

Suite 140

Stantec

Submitted: 03/23/2017 18:14 Suit

Reported: 03/30/2017 14:57 West Chester PA 19380

| CAT<br>No. | Analysis Name                 | Method         | Trial# | Batch#       | Analysis<br>Date and Time | Analyst          | Dilution<br>Factor |
|------------|-------------------------------|----------------|--------|--------------|---------------------------|------------------|--------------------|
| 07825      | Hexavalent Cr<br>(Extraction) | SW-846 3060A   | 1      | 17086042501A | 03/27/2017 18:50          | Daniel S Smith   | 1                  |
| 00111      | Moisture                      | SM 2540 G-1997 | 1      | 17083820003B | 03/25/2017 01:21          | Scott W Freisher | 1                  |



# Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

## Quality Control Summary

Client Name: Stantec Group Number: 1780229

Reported: 03/30/2017 14:57

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

| Analysis Name  | Result             | MDL                           |  |  |
|--|--------------------|-------------------------------|--|--|
|  | mg/kg              | mg/kg                         |  |  |
| Batch number: 170845708001<br>Chromium                     | Sample number N.D. | (s): 8898244-8898247<br>0.140 |  |  |
| Batch number: 17086042501A<br>Hexavalent Chromium (SOLIDS) | Sample number N.D. | (s): 8898244-8898247          |  |  |

### LCS/LCSD

| Analysis Name   | LCS Spike<br>Added<br>mg/kg | LCS<br>Conc<br>mg/kg  | LCSD Spike<br>Added<br>mg/kg | LCSD<br>Conc<br>mg/kg | LCS<br>%REC | LCSD<br>%REC | LCS/LCSD<br>Limits | RPD | RPD<br>Max |
|---|-----------------------------|-----------------------|------------------------------|-----------------------|-------------|--------------|--------------------|-----|------------|
| Batch number: 170845708001<br>Chromium                      | Sample number 20            | er(s): 88982<br>20.77 | 44-8898247                   |                       | 104         |              | 80-120             |     |            |
|   | mg/kg                       | mg/kg                 | mg/kg                        | mg/kg                 |             |              |                    |     |            |
| Batch number: 17086042501A<br>Hexavalent Chromium (SOLIDS)  | Sample number 5.00          | er(s): 88982<br>4.50  | 44-8898247                   |                       | 90          |              | 80-120             |     |            |
|   | mV                          | mV                    | mV                           | mV                    |             |              |                    |     |            |
| Batch number: 17088182101A<br>Oxidation Reduction Potential | Sample number 427           | er(s): 88982<br>435   | 44-8898247                   |                       | 102         |              | 98-102             |     |            |
|   | Std. Units                  | Std. Units            | Std. Units                   | Std.<br>Units         |             |              |                    |     |            |
| Batch number: 17088039401A pH in soil                       | Sample number 7.00          | er(s): 88982<br>7.02  | 44-8898247                   |                       | 100         |              | 95-105             |     |            |
|   | %                           | %                     | %                            | 8                     |             |              |                    |     |            |
| Batch number: 17083820003B<br>Moisture                      | Sample number 89.5          | er(s): 88982<br>88.55 | 44-8898247                   |                       | 99          |              | 99-101             |     |            |

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.



# **Analysis Report**

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## Quality Control Summary

Client Name: Stantec Group Number: 1780229

Reported: 03/30/2017 14:57

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Analysis Name  | Unspiked<br>Conc<br>mg/kg | MS Spike<br>Added<br>mg/kg | MS<br>Conc<br>mg/kg | MSD Spike<br>Added<br>mg/kg | MSD<br>Conc<br>mg/kg | MS<br>%Rec | MSD<br>%Rec | MS/MSD<br>Limits | RPD | RPD<br>Max |
|--|---------------------------|----------------------------|---------------------|-----------------------------|----------------------|------------|-------------|------------------|-----|------------|
| Batch number: 170845708001<br>Chromium                     | Sample numb<br>32.48      | er(s): 8898<br>18.87       | 3244-8898<br>42.57  | 247 UNSPK:<br>19.05         | P899455<br>43.87     | 53*        | 60*         | 75-125           | 3   | 20         |
|  | mg/kg                     | mg/kg                      | mg/kg               | mg/kg                       | mg/kg                |            |             |                  |     |            |
| Batch number: 17086042501A<br>Hexavalent Chromium (SOLIDS) | Sample numb<br>0.702      | er(s): 8898<br>40.2        | 3244-8898<br>37.16  | 247 UNSPK:                  | 8898246              | 91         |             | 75-125           |     |            |

## Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name                 | BKG Conc          | DUP Conc            | DUP RPD   | DUP RPD Max |
|-------------------------------|-------------------|---------------------|-----------|-------------|
|                               | mg/kg             | mg/kg               |           |             |
| Batch number: 170845708001    | Sample number(s): | 8898244-8898247 BKG | : P899455 |             |
| Chromium                      | 32.48             | 29.55               | 9         | 20          |
|                               | mg/kg             | mg/kg               |           |             |
| Batch number: 17086042501A    | Sample number(s): | 8898244-8898247 BKG | : 8898246 |             |
| Hexavalent Chromium (SOLIDS)  | 0.702             | 0.541               | 26* (1)   | 20          |
|                               | mV                | mV                  |           |             |
| Batch number: 17088182101A    | Sample number(s): | 8898244-8898247 BKG | : P899455 |             |
| Oxidation Reduction Potential | 538.5             | 539.5               | 0         | 5           |
|                               | Std. Units        | Std. Units          |           |             |
| Batch number: 17088039401A    | Sample number(s): | 8898244-8898247 BKG | : P899455 |             |
| pH in soil                    | 6.50              | 6.50                | 0         | 3           |
|                               | %                 | %                   |           |             |
| Batch number: 17083820003B    | Sample number(s): | 8898244-8898247 BKG | : 8898245 |             |
| Moisture                      | 26.77             | 23.92               | 11*       | 5           |

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

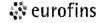
<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody

| Lancaster Laboratories   Acct. #   Forcion     | 🔅 eurofins   | ·                                 |               | 1                         | 1.1                                  | For E               | Eurofir  | ıs Lar     | ncaster                                 | Labora          | atorie        | es En                                  | vironn                      | nental                                  | use o  | nly            |                          |           |                  |  |                                      | 4  | <b>~ ~</b> :   | er for for for | 001      |  |
|--|--|-----------------------------------|---------------|---------------------------|--------------------------------------|---------------------|----------|------------|---|-----------------|---------------|--|-----------------------------|---|--|----------------|--------------------------|-----------|------------------|--|--------------------------------------|--|--|----------------|----------|--|
| Client Information   |  |                                   | atories       | Acct. #                   | 205 I                                | G                   | iroup i  | #          | <b>'80</b> ?                            | <del>)</del> 29 | _Sa           | ımple                                  | #                           | \(\frac{7}{3}\)                         | 57   | <u>82'</u>     | <u>44</u>                | - 4^      | <u> </u>         |  |                                      | U  | OC 1   | # 523          | 199T     |  |
| Preservation Codes   SCRIPTO 3 3 7 / L   Preservation Codes   SCRIPTO 3 3 7 / L   Preservation Codes   SCRIPTO CODE   SCRIPT   | 1  |                                   | nformatio     | n                         |                                      |                     |          | 2002453005 | Mat                                     | rix             |               |  |                             |   | A  | nalv           | sis                      | Reauc     | este             | d  |                                      |  | For Lab U  | se Only        |          |  |
| Sompler (National Time (TAT) Requested (please circle)  Standard (Reuth Tat is eusliged to lateratory approval and surcharge)  Turnaround Time (TAT) Requested (please circle)  Standard (Reuth Tat is eusliged to lateratory approval and surcharge)  Date results are needed:  Type (If (Red Was B) A C C C C C C C C C C C C C C C C C C  | Client:  |                                   |               | 131-031-07-14144-111-V    | Attended to the second second second |                     |          |            |   |                 |               |  |                             | *************************************** | deploid policy en co   | and the second | gelegel-skilpliglikepild | deligione | nigiran-eliga-m  | -risquips.psinv  | ESC:                                 |  |  |                |          |  |
| Preservation Codes   Proposition   Preservation Codes   Preservation C   | Stantel  |                                   |               |                           |                                      |                     | ļ        |            | ╙                                       | ШΙ              |               |  | ing named and the second    |   |  |                |                          |           | Staniel company. | oldstownsophilanes   |                                      | ,  | SCR#: 2  | <u> </u>       | 6        |  |
| Turnaround Time (TAT) Requested (plagase circle) Standard (Rush TAT is subject to laboratory approval and surcharge)  Type II (Red Level 3  Type II (Red L | Project Name/#:                                      |                                   |               | PWSID #:                  |                                      |                     |          | nss        | 밀                                       | e Ce            |               | ,                                      |                             |   | Ì  |                |                          |           |                  |  |                                      |  | Pres   | ervation C     | odes     |  |
| Sample Identification  |  | 7                                 |               |                           |                                      |                     |          | Ĕ          | l o                                     | urfa<br>        |               |  |                             | S                                       |  | .              | İ                        |           |                  |  |                                      |  |  |                |          |  |
| Sample Identification   Date   Time   Date   Time   Date   | , contagne   | i vi                              |               | P.O. #:                   | P.O. #:                              |                     |          |            | Ō                                       | ري              |               | S                                      |                             | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  | 3  |                | l l                      |           |                  |  |                                      |  |  | •              |          |  |
| Sample Identification  |  | DOCC                              |               | Quote #:                  | <u> </u>                             |                     |          | =          |   |                 |               | ner                                    | 55                          | É                                       | È  | ,              | i<br>i                   |           |                  |  |                                      |  | SERVICE SERVIC |                |          |  |
| Sample Identification   Date   Time   Date   Time   Date   | Maine Unide  | MR                                | ا             | Gaoto II.                 |                                      |                     | 1        | ner        | 9                                       | S               |               | itai                                   | 3                           | 5                                       | =  | ,              | l<br>I                   |           |                  |  |                                      |  | Hemarks  |                | <u>;</u> |  |
| ACTS-BH-17-O2 3/22/17 (CAD X X Z X X X X X X X X X X X X X X X X   |  |                                   | Jompliance:   | <u></u>                   |                                      |                     |          | Ē          | lab                                     |                 |               | 팃                                      | é                           |   | "Verment"  | ,              | i i                      |           |                  |  |                                      |  |  |                |          |  |
| ACTS-BH-17-O2 3/22/17 (CAD X X Z X X X X X X X X X X X X X X X X   | Remoulia   | MA                                | Yes 🔲         | No 🗆                      |                                      |                     | l ign    | တိ         | Pod                                     | ₽               |               | of C                                   | i 1                         | 3                                       | 3  | ,              | !<br>                    |           |                  |  |                                      |  |  |                |          |  |
| ACTS-BH-17-O2 3/22/17 (CAD X X Z X X X X X X X X X X X X X X X X   | 1  |                                   |               | Colle                     | ected                                | ا ا                 | ğ        | X          |   | 1               | ::            | #                                      | 13                          | PMG                                     | Val  | S              | I                        |           |                  |  |                                      |  |  |                |          |  |
| ACTS-BH-17-O2 3/22/17 (CAD X X Z X X X X X X X X X X X X X X X X   | Sample   | 3 Identification                  | 1             | Date                      | Time                                 | Gra                 | 5        | Soil       | Wat                                     |                 | اق            | Total                                  | 10                          | \$                                      | 13   | 0              | 6                        | <u> </u>  |                  |  |                                      |  |  |                |          |  |
| ACTS-BH-N-D3 3/22/N (CAD X X Z X X X X X X X X X X X X X X X X   | 4055-BH-   | 17-01                             |               |                           |                                      | X                   |          | X          | *************************************** |                 | Ť             |  | X                           | $\times$                                | X  | X              | X                        |           |                  |  |                                      | THE WILLIAM  |  |                |          |  |
| Turnaround Time (TAT) Requested (please circle)  Standard  (Rush TAT is subject to laboratory approval and surcharge)  Date results are needed:  Date results are needed:  Date Package Options (circle if required)  Type II (PA Level 3  Type VI (Raw Data Only)  Type III (Reduced non-CLP)  NJ DKOP  TX TRRP-13  Site-Specific Of Wish/MS/DDIP)?  Ves No  Palinquished by Care A A A A A A A A A A A A A A A A A A A   |  |                                   |               |                           |                                      | X                   |          | X          |   |                 |               | 2                                      | X                           | 义                                       | X  | X              | X                        |           |                  |  |                                      |  |  |                |          |  |
| Turnaround Time (TAT) Requested (please circle) Standard (Rush TAT is subject to laboratory approval and surcharge.)  Date results are needed:  Date Package Options (circle if required)  Type I (EPA Level 3 Equivalent/non-CLP)  Type III (Reduced non-CLP)  NJ DKOP TX TRRP-13  Relinquished by  Date Time  3 2 3 1 7 15 0 7  Relinquished by  Date Time  3 2 3 1 7 15 0 7  Relinquished by  Date Time  3 2 3 1 7 15 0 7  Relinquished by  |  |                                   |               |                           |                                      | K                   |          | X          |   | $\neg$          |               | 2                                      | X                           | X                                       | X  | 又              | X                        |           |                  |  |                                      |  |  |                |          |  |
| Turnaround Time (TAT) Requested (please circle) Standard Rush (Rush TAT is subject to laboratory approval and surcharge.)  Date results are needed:  Date and address:  Date andress:  Date andress:  Date andress:  Date andress:  Date andress: |  |                                   |               |                           |                                      |                     |          | X          |   |                 | ヿ             |  | X                           | ×                                       | X  | M              | X                        |           | $\Box$           |  |                                      |  |  |                |          |  |
| Standard  (Rush TAT is subject to laboratory approval and surcharge.)  Date results are needed:  Date results are needed:  Date Package Options (circle if required)  Type I (EPA Level 3 Equivalent/non-CLP)  Type III (Reduced non-CLP)  NJ DKQP  TX TRRP-13  Relinquished by  Date Time Received by  Da |  |                                   |               |                           |                                      |                     |          |            |   |                 | 丁             |  |                             |   |  |                |                          |           | $\Box$           | $\Box$   |                                      |  |  |                |          |  |
| Standard  (Rush TAT is subject to laboratory approval and surcharge.)  Date results are needed:  Date results are needed:  Date Package Options (circle if required)  Type I (EPA Level 3 Equivalent/non-CLP)  Type III (Reduced non-CLP)  NJ DKQP  TX TRRP-13  Relinquished by  Date Time Received by  Da | -  |                                   |               |                           |                                      |                     |          | $\Box$     |   |                 | 一             |  |                             |   |  |                |                          |           |                  |  |                                      |  |  |                |          |  |
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| Standard  (Rush TAT is subject to laboratory approval and surcharge.)  Date results are needed:  Date results are needed:  Date Package Options (circle if required)  Type I (EPA Level 3 Equivalent/non-CLP)  Type III (Reduced non-CLP)  NJ DKQP  TX TRRP-13  Relinquished by  Date Time Received by  Da |  |                                   |               |                           |                                      |                     |          | $\Box$     |   |                 |               |  |                             |   | , 📑  |                |                          |           | $\dashv$         | $\neg$   |                                      |  |  |                |          |  |
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| E-mail address:  | Deta reculte are need                                | Data was the are model. 5 day TAT |               |                           |                                      | Rollinguiched by () |          |            |   |                 |               |  |                             |   |  |                | MAL.                     | I D       | X                | are and a second   | <del></del>                          |  |  |                |          |  |
| Type I (EPA Level 3 Equivalent/non-CLP)  Type III (Reduced non-CLP)  NJ DKQP  TX TRRP-13  Relinquished by  Date  Time  Received by  Date  Time  Relinquished by  Date  Time  Received by  Date  Time  Site-Specific OC (MS/MSD/Dup)? Yes No  Site-Specific OC (MS/MSD/Dup)? Yes No  | Date results are need                                | Date results are needed:          |               |                           |                                      | 1                   | 3.23     |            |   |                 |               | 1.17                                   | 1/50                        | 7                                       | Heceiro  | u by           | 4,                       | m         | 10               |  |                                      |  |  |                |          |  |
| Type I (EPA Level 3 Equivalent/non-CLP)  Type III (Reduced non-CLP)  NJ DKQP  TX TRRP-13  Type VI (Raw Data Only)  EDD Required? Yes No If yes, format: FQUIS FILL Start   Content of the  | E-mail address: : VNN U TUROU ( ( ) SHAWHC ( ( ) ( ) |                                   |               |                           |                                      |                     |          |            |   |                 |               |  |                             |   |  |                |                          |           |                  |  |                                      |  |  |                |          |  |
| Type I (EPA Level 3 Equivalent/non-CLP)  Type III (Reduced non-CLP)  NJ DKQP  TX TRRP-13  Relinquished by  Date Time Received by  Relinquished by  Belinquished by  Relinquished by  Time Received by  Relinquished by  Relinquished by  Relinquished by  Commercial Carrier: UPS  FedEx  Other  Site-Specific QC (MS/MSD/Dup)? Yes No   |  |                                   |               |                           |                                      | June 12             |          |            |   |                 | 3.23.17 /8 14 |  |                             | 41                                      | The state of the s |                |                          |           |                  | STATE OF THE PROPERTY OF THE P | and the second section of the second |  |  |                |          |  |
| Type III (Reduced non-CLP)  NJ DKQP TX TRRP-13  EDD Required? Yes No Relinquished by Commercial Carrier:  If yes, format: Four Full Stands UPS FedEx Other Site-Specific QC (MS/MSD/Dup)? Yes No   | Tyne I (FPA Level 3                                  |                                   | Relinqu       | Relinquished by Date Time |                                      |                     |          |            |   |                 |               |  |                             |   |  |                |                          |           |                  |  |                                      |  |  |                |          |  |
| If yes, format: Fous FFU Stavitic UPS FedEx Other Site-Specific QC (MS/MSD/Dup)? Yes No  | Equivalent/non-CLP)                                  |                                   |               | Jilly)                    |                                      |                     |          |            |   |                 |               |  |                             |   |  |                |                          |           |                  |  |                                      |  |  |                |          |  |
| Site-Specific QC (MS/MSD/Dup)? Yes No  | Type III (Reduced non-CLP) NJ DKQP TX TRRP-13        |                                   |               | 'RRP-13                   |                                      |                     |          | EDD        | Requi                                   | ired?           | ? 🕎           | 'es                                    | <u>`</u> No                 |   | nr.  |                |                          |           |                  |  |                                      |  |  |                |          |  |
| NVSDEC Category A or R MA MCP CT RCP   Site-Specific QC (ivis/ivis/i/Dup): Tes ivo   Temperature upon receipt Q. / °C  | ,  | ,                                 |               |                           | '                                    | <u> </u>            |          |            |   | L. Company      | 1             |  |                             |   |  |                |                          |           |                  |  |                                      |  |  |                |          |  |
| (If yes, indicate QC sample and submit triplicate sample volume.)  | NYSDEC Category A or B MA MCP CT RCP                 |                                   |               | 1 ' ' ' 16                |                                      |                     |          |            |   |                 | Ten           | emperature upon receipt <u>O. 7</u> °C |                             |   |  |                |                          |           |                  |  |                                      |  |  |                |          |  |



## Sample Administration Receipt Documentation Log

Doc Log ID:

178810

Group Number(s): 1780029

Client: Santec

**Delivery and Receipt Information** 

**Delivery Method:** 

**ELLE Courier** 

Arrival Timestamp:

03/23/2017 18:14

Number of Packages:

1

Number of Projects:

1

State/Province of Origin:

PA

**Arrival Condition Summary** 

Shipping Container Sealed:

No

Sample IDs on COC match Containers:

Yes

**Custody Seal Present:** 

No

Sample Date/Times match COC:

Yes

Samples Chilled:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Paperwork Enclosed:

Yes

Total Trip Blank Qty:

0

Samples Intact:

Yes No

Air Quality Samples Present:

No

Missing Samples:

No

Extra Samples:

No

Unpacked by Simon Nies (25112) at 19:04 on 03/23/2017

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler # Thermometer ID

Corrected Temp 0.7

Therm. Type

Ice Type

Ice Present?

Ice Container

**Elevated Temp?** 

DT146

Discrepancy in Container Qty on COC:

DT

Wet

Bagged

N



# **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

**BMQL** Below Minimum Quantitation Level mq milligram(s) degrees Celsius mĹ milliliter(s) cfu colony forming units MPN Most Probable Number **CP Units** cobalt-chloroplatinate units N.D. none detected F degrees Fahrenheit ng nanogram(s) nephelometric turbidity units gram(s) NTU g IÙ International Units pg/L picogram/liter kilogram(s) RL Reporting Limit kg **TNTC** liter(s) Too Numerous To Count lb. pound(s) microgram(s) μg μĹ microliter(s) m3 cubic meter(s) milliequivalents umhos/cm micromhos/cm meg

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

### Laboratory Data Qualifiers:

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



# **Additional Data Qualifiers**

| Qualifier | Definition             |
|-----------|------------------------|
| В         | Detection in the Blank |
| Q0        | LCS/LCSD Low           |
| Q1        | LCS/LCSD High          |
| Q4        | MS/MSD Out of Range    |
| Q7        | LCS/LCSD RPD           |
| Q8        | DUP RPD                |
| Q9        | MS/MSD RPD             |